

Notice of Allowability**Application No.**

10/658,775

Examiner

LEONARD SAINT CYR

Applicant(s)

LIU, SHAOMING

Art Unit

2626

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/26/09.
2. ☒ The allowed claim(s) is/are 1, 3, 5 - 8, 10, 12 - 14, 15, 17, 19, 20, 22, 24, 26, and 27.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 08/25/09.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

DETAILED ACTION

Allowable Subject Matter

1. Claims 1, 3, 5 – 8, 10, 12 – 14, 15, 17, 19, 20, 22, 24, 26, and 27 are allowed.

The following is an examiner's statement of reasons for allowance:

As to claims 1, 3, 5 – 7, 15, 17, 19, and 20, neither Liu nor Dolan teach or suggest calculating a distance between the first text sentence and the second text sentence using the processor, on the basis of the following expression: the distance = (the calculated distance between the first R tree and the second R tree) / (a sum of vertexes in the first R tree and the second R tree);

wherein in the converting, word information and case information in the first text sentence are assigned to respective vertexes of the first R tree so that at least one of the vertexes of the first R tree contains the word information and the case information in the first text sentence; word information and case information in the second text sentence are assigned to respective vertexes of the second R tree so that at least one of the vertexes of the second R tree contains the word information and the case information in the second sentence; and the vertex mapping weight is calculated on the basis of word substitution weight, word deletion weight, word insertion weight, case substitution weight, case deletion weight and case insertion weight; and outputting the calculated distance between the first text sentence and the second text sentence as an indication of semantic content similarity between the sentences.

As to claims 8, 10, 12 – 14, 22, 24, 26, and 27, neither Liu nor Dolan teach or suggest calculating a distance between the first text sentence and the second text sentence using the processor, on the basis of the calculated distance between the first RO tree and the second RO tree, wherein in the converting, word information and case information in the first text sentence are assigned to respective vertexes of the first RO tree so that at least one of the vertexes of the first RO tree contains the word information and the case information in the first text sentence; and word information and case information in the second text sentence are assigned to respective vertexes of the second RO tree so that at least one of the vertexes of the second RO tree contains the word information and the case information in the second sentence, and the vertex mapping weight is calculated on the basis of word substitution weight, word deletion weight, word insertion weight, case substitution weight, case deletion weight and case insertion weight; and outputting the calculated distance between the first text sentence and the second text sentence as an indication of semantic content similarity between the sentences.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEONARD SAINT CYR whose telephone number is (571) 272-4247. The examiner can normally be reached on Mon- Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or (571) 272-1000.

LS
09/18/09

/Richemond Dorvil/
Supervisory Patent Examiner, Art Unit 2626